

*FME*  
EPM

ENVIRONMENTAL PROJECT MANAGEMENT, LLC

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608.277.0575

July 23, 2013

Ms. Sushmita Sharma, P.E.  
Permits Section, Hazardous Waste Program  
Missouri Dept. of Natural Resources  
500 NE Colbern Road  
Lee's Summit, MO 64086

RECEIVED

JUL 30 2013

AWMD/WRAP-MIRP

RE: Progress Report  
Univar USA Inc., Expedited Corrective Action Program,  
St. Louis (Berkeley), Missouri. EPA ID# MOD084396985

RCRA



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Dear Ms. Sharma:

On behalf of Univar USA Inc. (Univar), Environmental Project Management is providing the Missouri Department of Natural Resources (MDNR) with the progress report for the above-identified Expedited Corrective Action Program (ECAP) project. This report covers the first half of 2013 and describes the completed activities, findings, and the planned future activities. A Final ECAP Report for this project was previously submitted to the MDNR in August 2009, and was subsequently approved by the MNDR. Following the MNDR approval, a Corrective Measures Study Report was submitted to the MDNR in July 2010.

#### Completed Activities

The activities completed over the reporting period for the Univar ECAP St. Louis project consisted of the following:

- Submittal of the previous Progress Report to the MNDR for 2012 activities.
- Semi-annual groundwater sampling was completed in June 2013.
- Evaluated the data generated from the field sampling activities and prepared this report.

#### Findings

The groundwater sampling was completed on June 12, 2013, and consisted of collecting a groundwater sample from each of the nine facility monitoring wells. The sampling activities were completed consistent with the scope of work and the Quality Assurance Project Plan (QAPP) prepared for this ECAP project. Prior to sampling, each well was opened and the water level was allowed to equilibrate. The water level in each monitoring well was then measured, and these measurements along with the water level elevations are presented in Table 1. A water table contour map utilizing the water level data from this event is presented in Figure 1. The configuration of the water table and the direction of groundwater flow shown in Figure 1 is consistent with previous data and observations for this project.

The analytical data from this groundwater sampling event, and all past ECAP groundwater sampling events at this facility, are summarized in Table 2. The concentration of the total volatile organic compounds (VOCs) for each groundwater sample are also included in Figure 1

next to each well to illustrate the approximate distribution of VOCs in the groundwater across the facility.

The data from the most recent groundwater sampling event (Table 2) are consistent with previous data from the facility monitoring wells. Several of the monitoring well locations produced samples that increased slightly in total VOC concentration relative to the prior sampling event, however, the data is consistent with recent historical data and long-term downward trends are present at all locations to some degree. Two monitoring well locations continue to produce non-detectable concentrations (Monitoring Wells MW-1 and MW-5). Graphs of the VOC concentrations over time, for those monitoring wells with detections, are provided in Attachment 1.

The quality assurance/quality control (QA/QC) sample data from this sampling event is included in Table 2. The trip blank and field equipment blank samples did not contain any reported detections. A groundwater sample collected from Monitoring Well MW-9 was also submitted to the laboratory as a blind duplicate sample. The duplicated sample produced relatively similar results (within less than 3% of the original sample) suggesting good laboratory reproduction. The water sampling field log summarizing field data collected during this sampling event is provided in Attachment 2. The complete laboratory report for this sampling event is provided in Attachment 3.

In summary, the ECAP investigation activities completed at this facility have demonstrated the soil and groundwater environmental impacts are relatively limited. The overall groundwater analytical data from this facility continues to show a downward VOC concentration trend over time due to natural degradation and attenuation processes.

#### Future Activities

The future activities recommended for this facility include the ongoing semi-annual groundwater sampling and analysis. Univar will continue to submit periodic update reports summarizing the data.

Please do not hesitate to contact Tony Pirelli of Univar at 262-250-1381, or myself at 608-277-0575, should you have any questions.

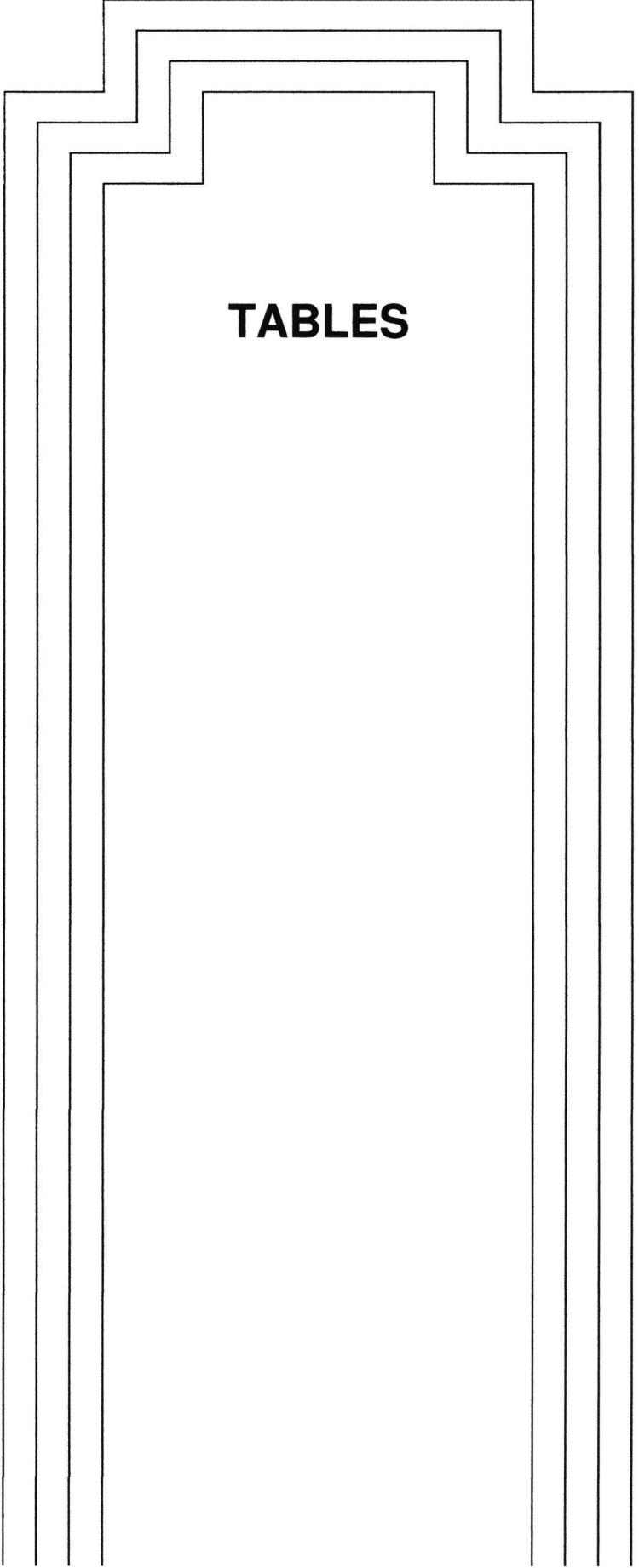
Sincerely,



Thomas C. Sullivan, P.G.  
Principal Scientist/Project Manager

Attachments (1 copy of Attachments 1 & 2 provided to MDNR)

cc: Tony Pirelli, Univar USA Inc.  
MDNR, Jefferson City  
Christine Jump, US EPA Region 7 (w/o Attachment 3)



## **TABLES**

**Table 1**  
**Water Level Elevations**  
**12-Jun-13**  
**Univar USA Inc.**  
**St. Louis, Missouri Facility**

Well Name	Measuring Point Elevation	Depth to Water (ft)	Water Level Elevation
MW-1	521.82	2.60	519.22
MW-2	523.92	2.26	521.66
MW-3	523.88	0.96	522.92
MW-4	528.64	4.19	524.45
MW-5	530.34	8.75	521.59
MW-6	527.56	10.58	516.98
MW-7	527.71	5.42	522.29
MW-8	523.92	3.66	520.26
MW-9	523.94	0.88	523.06

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri**

	Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-1														
					3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013
Acetone	492,000	36,900	96,400	4010 (4010)	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	9	1.06	0.007	0.171 (1.71)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	447	270	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	12	1.17	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	8.78	8.98	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
n-Butylbenzene	119	3	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	84	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	128	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	0.670	0.171	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	178	11.9	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	5	14.4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	244	7.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	0.95	6.49	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropan	1410	0.0359	ND	ND	<0.001	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	21.4	350	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	86.8	34	1.53	30 (30)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	9.97	1.65	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dioxane	2,390	144	8	NE	NA	NA	NA	<0.1	<0.038	<0.0042	<0.0043	<0.1	<0.0043	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	1,430	35.1	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	1.9	0.0262	0.001	0.096 (0.966)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	527	254	ND	ND	NA	NA	NA	<0.001</td											

1. Tier 1 RBTLs for indoor inhalation of vapor emissions, non-residential land use, soil type 2. 2. Tier 1 RBTLs for dermal contact, non-residential land use, soil type 2.

3. US EPA Vapor Intrusion screening values following US EPA and ITRC Guidance utilizing RSLs for industrial air (See CMS)

4. US EPA Johnson & Ettinger Model Values, see CMS for detail. Values for 10-6 (10-5).

All concentrations in milligrams per liter (mg/L) or parts per million (ppm). ND = none detected. NA = not analyzed. NE = none established. < = not detected at laboratory detection limit shown. All concentrations shown in bold.

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-2																
				3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	12/21/2011 dup	6/21/2012	12/20/2012	6/12/2013	
Acetone	492,000	36,900	96,400	4010 (4010)	<0.025	<0.05	<0.025	<0.01	<b>0.018</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzene	9	1.06	0.007	0.171 (1.71)	<0.005	<0.01	<0.005	<0.001	<b>0.0017</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromobenzene	NE	NE	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromochloromethane	447	270	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromodichloromethane	12	1.17	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromomethane	8.78	8.98	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.025	<0.05	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
n-Butylbenzene	119	3	NE	NE	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
sec-Butylbenzene	84	4	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
tert-Butylbenzene	128	4	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Carbon tetrachloride	0.670	0.171	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	178	11.9	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloromethane	5	14.4	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Chlorotoluene	244	7.64	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Chlorotoluene	0.95	6.49	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.005	<0.05	<0.025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromoethane	NE	NE	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromomethane	NE	NE	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dichlorodifluoromethane	21.4	350	ND	ND	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<b>0.035</b>	<b>0.038</b>	<b>0.049</b>	<b>0.0213</b>	<b>0.043</b>	<b>0.0123</b>	<b>0.0028</b>	<b>0.0014</b>	<b>0.005</b>	<0.001	<b>0.0137</b>	<0.001	<0.001	<b>0.0134</b>	<0.001	<b>0.0029</b>
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<b>0.23</b>	<b>0.26</b>	<b>0.27</b>	<b>0.0719</b>	<b>0.23</b>	<b>0.0169</b>	<b>0.0065</b>	<b>0.0036</b>	<b>0.0206</b>	<b>0.0021</b>	<b>0.053</b>	<0.001	<0.001	<b>0.</b>		

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-3															
				3/9/2007	3/9/2007 Dup	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013
Acetone	492,000	36,900	96,400	4010 (4010)	<0.25	<0.1	<0.5	<0.25	<0.1	<b>0.017</b>	<1	<b>0.16</b>	<1	<1	<1	<0.5	<1	<1	<1
Benzene	9	1.06	0.007	0.171 (1.71)	<0.05	<0.02	<0.1	<0.05	<0.01	<b>0.0012</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Bromobenzene	NE	NE	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Bromochloromethane	447	270	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Bromodichloromethane	12	1.17	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Bromomethane	8.78	8.98	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.5	<0.5
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.25	<0.02	<0.5	<0.25	<0.1	<0.01	<1	<1	<b>0.0809</b>	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene	119	3	NE	NE	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<b>0.0146</b>	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
sec-Butylbenzene	84	4	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
tert-Butylbenzene	128	4	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	NA	<0.05	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5
Carbon tetrachloride	0.670	0.171	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Chlorobenzene	178	11.9	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.05	<0.02	<0.1	<0.05	<b>0.0305</b>	<b>0.035</b>	<b>0.0463</b>	<b>0.0626</b>	<b>0.0408</b>	<0.1	<0.1	<0.05	<0.1	<0.1	<b>0.112</b>
Chloromethane	5	14.4	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
2-Chlorotoluene	244	7.64	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
4-Chlorotoluene	0.95	6.49	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.05	<0.02	<0.5	<0.25	<0.025	<0.0025	<0.25	<0.25	<0.25	<0.25	<0.25	<0.125	<0.25	<0.25	<0.25
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	NA	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,2-Dibromoethane	NE	NE	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Dibromomethane	NE	NE	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
Dichlorodifluoromethane	21.4	350	ND	ND	<0.05	<0.02	<0.1	<0.05	<0.01	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<b>0.2</b>	<b>0.21</b>	<b>0.28</b>	<b>0.32</b>	<b>0.33</b>	<b>0.33</b>	<b>0.348</b>	<b>0.274</b>	<b>0.294</b>	<b>0.181</b>	<b>0.257</b>	<b>0.236</b>	<b>0.225</b>	<b>0.206</b>	<b>0.216</b>
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<b>2.7</b>	<b>2.9</b>	<b>3.3</b>	<b>3.2</b>	<b>2.28</b>	<b>2.9</b>	<b>2.7</b>	<b>2.62</b>	<b>1.99</b>	<b>2.25</b>	<b>1.57</b>	<b>1.91</b>	<b>1.6</b>	<b>1.6</b>	<b>1.38</b>
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<b>0.11</b>	<b>0.12</b>	<b>0.34</b>	<b>0.33</b>	<b>0.295</b>	<b>0.45</b>	<b>0.373</b>	<b>0.382</b>	<b>0.27</b>	<b>0.321</b>	<b>0.207</b>	<b>0.274</b>	<b>0.226</b>	<b>0.246</b>	<b>0.188</b>
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<b>0.45</b>	<b>0.46</b>	<b>0.61</b>	<b>0.88</b>	<b>0.921</b>	<b>1.5</b>	<b>1.76</b>	<b>1.61</b>	<b>2.83</b>	<b>2.88</b>	<b>2.79</b>	<b>3.44</b>	<b>4.15</b>	<b>3.23</b>	<b>5.28</b>
trans-1,2-Dichloroethene	86.8	34	1.53	30 (30)	<0.05	<0.02	<0												

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-4															
				3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013	
Acetone	492,000	36,900	96,400	4010 (4010)	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzene	9	1.06	0.007	0.171 (1.71)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Bromobenzene	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Bromoform	447	270	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Bromoform	12	1.17	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Bromomethane	2,420	11	0.5	2.12 (21.2)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Bromomethane	8.78	8.98	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
n-Butylbenzene	119	3	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
sec-Butylbenzene	84	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
tert-Butylbenzene	128	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Carbon tetrachloride	0.670	0.171	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	178	11.9	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloromethane	5	14.4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Chlorotoluene	244	7.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Chlorotoluene	0.95	6.49	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.001	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
Dibromoform	51.4	0.932	ND	ND	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromoethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromomethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dichlorodifluoromethane	21.4	350	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<b>0.0028</b>	<b>0.0014</b>	<b>0.0083</b>	<b>0.0032</b>	<b>0.006</b>	<b>0.0016</b>	<b>0.0014</b>	<b>0.0021</b>	<b>0.0035</b>	<b>0.0031</b>	<b>0.001</b>	<b>0.0021</b>	<b>0.0014</b>	<b>0.0016</b>	<b>0.0056</b> </td

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

1. Tier 1 RBTLs for indoor inhalation of vapor emissions, non-residential land use, soil type 2. 2. Tier 1 RBTLs for dermal contact, non-residential land use, soil type 2.

3. US EPA Vapor Intrusion screening values following US EPA and ITRC Guidance utilizing RSLs for industrial air (See CMS).

4. US EPA Johnson & Ettinger Model Values, see CMS for detail. Values for 10-6 (10-5)

All concentrations in milligrams per liter (mg/L) or parts per million (ppm). ND = none detected. NA = not analyzed. NE = none established. < = not detected at laboratory detection limit shown. All concentrations shown in bold.

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-6																
				3/9/2007	6/25/2007	6/25/2007 Dup	10/15/2007	5/7/2008	9/22/2008	1/26/2009	1/26/2009 dup	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013
Acetone	492,000	36,900	96,400	4010 (4010)	<0.25	<0.005	<0.005	<0.05	<0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzene	9	1.06	0.007	0.171 (1.71)	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromobenzene	NE	NE	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromochloromethane	447	270	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromodichloromethane	12	1.17	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromomethane	8.78	8.98	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.25	<0.005	<0.005	<0.05	<0.01	<0.1	<b>0.0093</b>	<b>0.0095</b>	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	
n-Butylbenzene	119	3	NE	NE	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
sec-Butylbenzene	84	4	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
tert-Butylbenzene	128	4	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	NA	NA	<0.001	<0.05	<0.05	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Carbon tetrachloride	0.670	0.171	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	178	11.9	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.05	<0.001	<0.001	<0.01	<b>0.0058</b>	<0.01	<b>0.0085</b>	<b>0.0081</b>	<b>0.0411</b>	<b>0.0325</b>	<b>0.131</b>	<b>0.108</b>	<b>0.121</b>	<b>0.127</b>	<b>0.172</b>	<b>0.173</b>
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloromethane	5	14.4	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Chlorotoluene	244	7.64	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Chlorotoluene	0.95	6.49	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.05	<0.005	<0.005	<0.05	<0.0025	<0.025	<0.025	<0.025	<0.0125	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	NA	NA	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromoethane	NE	NE	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromomethane	NE	NE	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dichlorodifluoromethane	21.4	350	ND	ND	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<b>0.57</b>	<b>0.13</b>	<b>0.12</b>	<b>1.3</b>	<b>0.688</b>	<b>0.745</b>	<b>0.361</b>	<b>0.399</b>	<b>0.138</b>	<b>0.208</b>	<b>0.0484</b>	<b>0.0496</b>	<b>0.118</b>	<b>0.0446</b>	<b>0.0953</b>	<b>0.0385</b>
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<0.05	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethene	72.3	74.4	0.2																	

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

	Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-7																		
					3/9/2007	6/25/2007	10/15/2007	10/15/2007 Dup	5/7/2008	5/7/2008 Dup	9/22/2008	9/22/2008 Dup	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013	
Acetone	492,000	36,900	96,400	4010 (4010)	<12	<1.2	0.16	0.11	<0.01	<0.01	<b>0.017</b>	<b>0.021</b>	<0.05	1.31	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Benzene	9	1.06	0.007	0.171 (1.71)	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
Bromobenzene	NE	NE	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
Bromoform	447	270	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Bromomethane	12	1.17	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Bromotoluene	2,420	11	0.5	2.12 (21.2)	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Bromomethane	8.78	8.98	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.01	<0.01	
2-Butanone	740,000	12,600	9,520	6960 (6960)	<12	<1.2	<0.12	<0.1	<0.01	<0.01	<0.01	<0.05	<b>0.129</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	
n-Butylbenzene	119	3	NE	NE	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
sec-Butylbenzene	84	4	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
tert-Butylbenzene	128	4	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	NA	NA	<0.001	<0.001	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	
Carbon tetrachloride	0.670	0.171	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Chlorobenzene	178	11.9	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<2.5	<0.25	<b>0.046</b>	<b>0.048</b>	<b>0.0023</b>	<0.001	<0.001	<b>0.0644</b>	<b>0.069</b>	<b>0.0162</b>	<b>0.0087</b>	<0.001	<b>0.0058</b>	<b>0.013</b>	<b>0.0042</b>	<0.002	<0.002		
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
Chloromethane	5	14.4	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
2-Chlorotoluene	244	7.64	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
4-Chlorotoluene	0.95	6.49	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<2.5	<1.2	<0.025	<0.02	<0.0025	<0.0025	<0.0025	<0.0025	<0.0125	<0.0125	<0.0025	<b>0.008</b>	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.005	
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		
1,2-Dibromoethane	NE	NE	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		
Dibromomethane	NE	NE	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		
1,2-Dichlorobenzene	12,000	292	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		
1,3-Dichlorobenzene	633	6.87	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002		
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<2.5	<0.25	<0.025	<0.02	<0.001	<0.001	<0.001	<0.005</td											

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

	Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-8														
					3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012	6/12/2013
Acetone	492,000	36,900	96,400	4010 (4010)	<0.25	<0.12	<0.25	<0.01	<b>0.019</b>	<0.1	<b>0.0271</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzene	9	1.06	0.007	0.171 (1.71)	<0.05	<0.025	<0.005	<b>0.0033</b>	<b>0.0053</b>	<b>0.0044</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromobenzene	NE	NE	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromochloromethane	447	270	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromodichloromethane	12	1.17	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromomethane	8.78	8.98	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.25	<0.12	<0.025	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
n-Butylbenzene	119	3	NE	NE	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
sec-Butylbenzene	84	4	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
tert-Butylbenzene	128	4	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	<0.001	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Carbon tetrachloride	0.670	0.171	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chlorobenzene	178	11.9	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.05	<0.025	<0.005	<0.001	<0.001	<b>0.0015</b>	<b>0.0023</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloromethane	5	14.4	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Chlorotoluene	244	7.64	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4-Chlorotoluene	0.95	6.49	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.05	<0.12	<0.025	<0.0025	<0.0025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2-Dibromoethane	NE	NE	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dibromomethane	NE	NE	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dichlorodifluoromethane	21.4	350	ND	ND	<0.05	<0.025	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<b>0.13</b>	<b>0.13</b>	<b>0.17</b>	<b>0.17</b>	<b>0.134</b>	<b>0.15</b>	<b>0.134</b>	<b>0.143</b>	<b>0.091</b>	<b>0.126</b>	<b>0.0829</b>	<b>0.0997</b>	<b>0.0644</b>	<b>0.0956</b>	
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<b>0.28</b>	<b>0.25</b>	<b>0.26</b>	<b>0.26</b>	<b>0.221</b>	<b>0.247</b>	<b>0.233</b>	<b>0.219</b>	<b>0.128</b>	<b>0.155</b>	<b>0.0924</b>	<b>0.113</b>	<b>0.0667</b>	<b>0.102</b>	
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<b>0.1</b>	<b>0.16</b>	<b>0.17</b>	<b>0.162</b>	<b>0.24</b>	<b>0.138</b>	<b>0.167</b>	<b>0.132</b>	<b>0.134</b>	<b>0.0725</b>	<b>0.119</b>	<b>0.0532</b>	<b>0.0621</b>	<b>0.0382</b>	<b>0.0616</b>
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<b>0.25</b>	<b>0.3</b>	<b>0.72</b>	<b>0.591</b>	<b>1.3</b>	<b>0.856</b>	<b>1.14</b>	<b>0.96</b>	<b>1.19</b>	<b>0.761</b>	<b>1.04</b>	<b>0.653</b>	<b>0.925</b>	<b>0.688</b>	<b>1.01</b>
trans-1,2-Dichloroethene	86.8	34	1.53	30 (30)	<0.05	<0.													

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	MW-9																			
				9/23/2008	1/26/2009	5/7/2009	5/7/2009 Dup	12/1/2009	12/1/2009 Dup	5/26/2010	5/26/2010 Dup	12/14/2010	12/14/2010 dup	5/17/2011	5/17/2011 dup	12/21/2011	6/21/2012	6/21/2012 dup	12/20/2012	12/20/12 dup	6/12/2013	6/12/13 dup	
Acetone	492,000	36,900	96,400	4010 (4010)	<b>0.411</b>	<b>0.214</b>	<b>0.0567</b>	<b>0.12</b>	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<b>0.0134</b>	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	9	1.06	0.007	0.171 (1.71)	<0.01	<0.01	<b>0.0017</b>	<0.001	<0.01	0.0011	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Bromobenzene	NE	NE	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Bromochloromethane	447	270	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	12	1.17	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	8.78	8.98	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.025	<0.005	<0.025	<0.025	<0.025	<0.025
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.1	<b>0.0116</b>	<0.1	<0.01	<b>0.144</b>	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
n-Butylbenzene	119	3	NE	NE	<0.01	<0.01	<0.01	<0.001	<0.01	<b>0.0011</b>	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	84	4	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	128	4	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	189	115	5.25	106 (106)	<0.05	<0.05	<0.05	<0.005	<0.05	<b>0.006</b>	<0.05	<0.025	<0.05	<0.05	<0.05	<0.05	<0.025	<0.025	<0.005	<0.025	<0.025	<0.025	<0.025
Carbon tetrachloride	0.670	0.171	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	178	11.9	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<b>0.0123</b>	<b>0.0152</b>	<b>0.0068</b>	<b>0.0083</b>	<0.01	<b>0.0028</b>	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<b>0.0028</b>	<0.005	<0.005	<b>0.0052</b>	<b>0.0058</b>	
Chloromethane	5	14.4	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorotoluene	244	7.64	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chlorotoluene	0.95	6.49	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	1410	0.0359	ND	ND	<0.025	<0.025	<0.025	<0.0025	<0.025	<0.025	<0.025	<0.0125	<0.025	<0.025	<0.025	<0.0125	<0.0125	<0.0025	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125
Dibromochloromethane	51.4	0.932	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	NE	NE	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	NE	NE	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.01	&lt																	

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

	Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	Equipment Blank													
					3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/22/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012
Acetone	492,000	36,900	96,400	4010 (4010)	<0.005	<0.005	<0.005	<0.01	<b>0.02</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	9	1.06	0.007	0.171 (1.71)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	447	270	ND	ND	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	12	1.17	ND	ND	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	8.78	8.98	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
n-Butylbenzene	119	3	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	84	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	128	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	NA	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	0.670	0.171	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	178	11.9	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.001	<b>0.0064</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	5	14.4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	244	7.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	0.95	6.49	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropan	1410	0.0359	ND	ND	<0.001	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	21.4	350	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	86.8	34	1.53	30 (30)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	9.97	1.65	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dioxane	2,390	144	8	NE	NA	NA	NA	NA	<b>0.14</b>	<0.0032	<0.0032	<0.0033	<0.0033	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	1,430	35.1	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	1.9	0.0262	0.001	0.096 (0.966)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	527	254	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	52.7	25	ND	ND	<0.001	&lt												

<sup>1</sup>. Tier 1 RBTLs for indoor inhalation of vapor emissions, non-residential land use, soil type 2. <sup>2</sup>. Tier 1 RBTLs for dermal contact, non-residential land use, soil type 2.

### **3. US EPA Vapor Intrusion screening values following US EPA and ITRC Guidance utilizing RSLs for industrial air (See CMS)**

4. US EPA Johnson & Ettinger Model Values, see CMS for detail. Values for 10-6 (10-5)

All concentrations in milligrams per liter (mg/L) or parts per million (ppm). ND = none detected. NA = not analyzed. NE = none established. < = not detected at laboratory detection limit shown. All concentrations shown in bold.

**TABLE 2. Summary of Groundwater Sample VOC Analytical Results, Univar USA Inc., Berkeley, Missouri.**

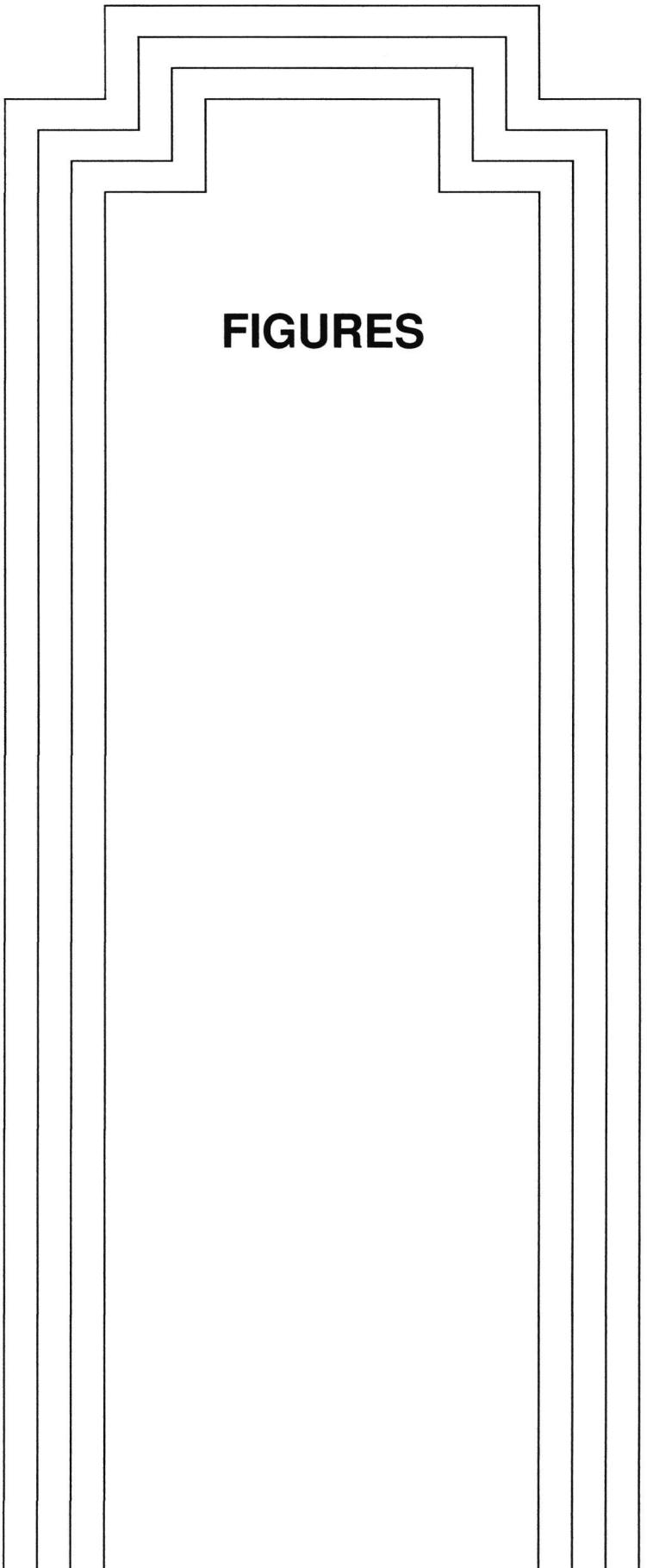
	Tier 1 RBTL Vapor <sup>1</sup>	Tier 1 RBTL Dermal <sup>2</sup>	EPA RSL Vapor <sup>3</sup>	EPA J & E Model <sup>4</sup>	Trip Blank													
					3/9/2007	6/25/2007	10/15/2007	5/7/2008	9/23/2008	1/26/2009	5/7/2009	12/1/2009	5/26/2010	12/14/2010	5/17/2011	12/21/2011	6/21/2012	12/20/2012
Acetone	492,000	36,900	96,400	4010 (4010)	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	9	1.06	0.007	0.171 (1.71)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	447	270	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	12	1.17	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	2,420	11	0.5	2.12 (21.2)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	8.78	8.98	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005
2-Butanone	740,000	12,600	9,520	6960 (6960)	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
n-Butylbenzene	119	3	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	84	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	128	4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	189	115	5.25	106 (106)	NA	NA	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	0.670	0.171	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	178	11.9	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	25.7	33.1	97.8	0.838 (8.38)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	2.57	2.11	0.0035	0.062 (0.62)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	5	14.4	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	244	7.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	0.95	6.49	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropan	1410	0.0359	ND	ND	<0.001	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Dibromochloromethane	51.4	0.932	ND	ND	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	12,000	292	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	633	6.87	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	21.2	1.64	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	21.4	350	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	34.2	12.9	0.0335	285 (285)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	8.28	1.29	0.01	0.078 (0.788)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	72.3	74.4	0.203	37.6 (37.6)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	93.6	23.4	NE	21.5 (21.5)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	86.8	34	1.53	30 (30)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	9.97	1.65	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	NA	NA	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	5.29	1.09	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dioxane	2,390	144	8	NE	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	1,430	35.1	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	1.9	0.0262	0.001	0.096 (0.966)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	527	254	ND	ND	NA	NA	NA	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Isopropylbenzene	52.7	25	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	NE	NE	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	220,000	518	ND	ND	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00					

1. Tier 1 RBTLs for indoor inhalation of vapor emissions, non-residential land use, soil type 2. 2. Tier 1 RBTLs for dermal contact, non-residential land use, soil type 2.

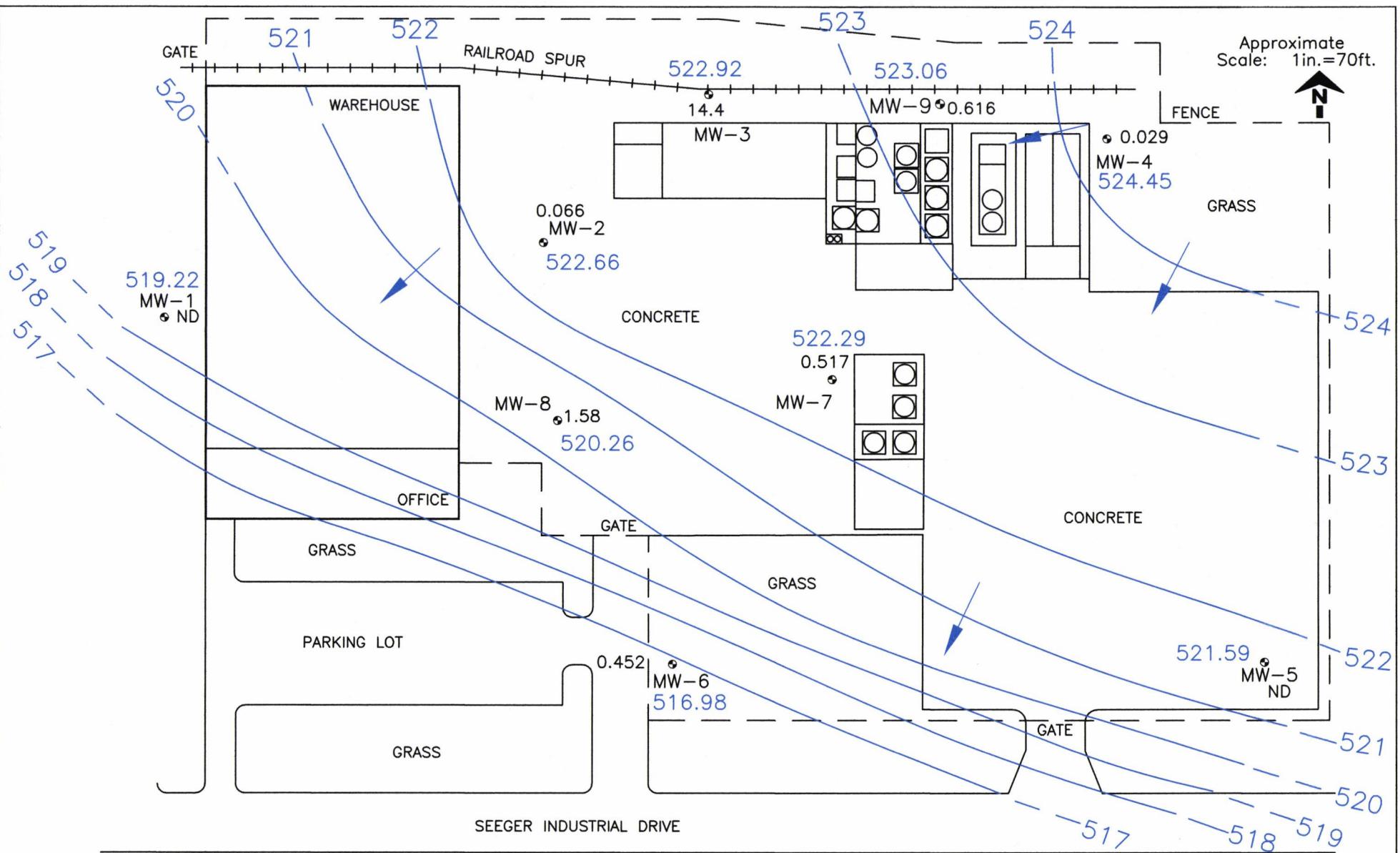
3. US EPA Vapor Intrusion screening values following US EPA and ITRC Guidance utilizing RSLs for industrial air (See CMS).

4. US EPA Johnson & Ettinger Model Values, see CMS for detail. Values for 10-6 (10-5).

All concentrations in milligrams per liter (mg/L) or parts per million (ppm). ND = none detected. NA = not analyzed. NE = none established. < = not detected at laboratory detection limit shown. All concentrations shown in bold.



## **FIGURES**



#### LEGEND

- MONITORING WELL WITH GROUNDWATER ELEVATION (6/12/13)
- 522 CONTOUR OF APPROXIMATE EQUAL WATER LEVEL
- 522 DIRECTION OF GROUNDWATER FLOW
- 0.31 GROUNDWATER SAMPLE TOTAL VOC CONCENTRATION (mg/L; on 6/12/13; ND=none detected)

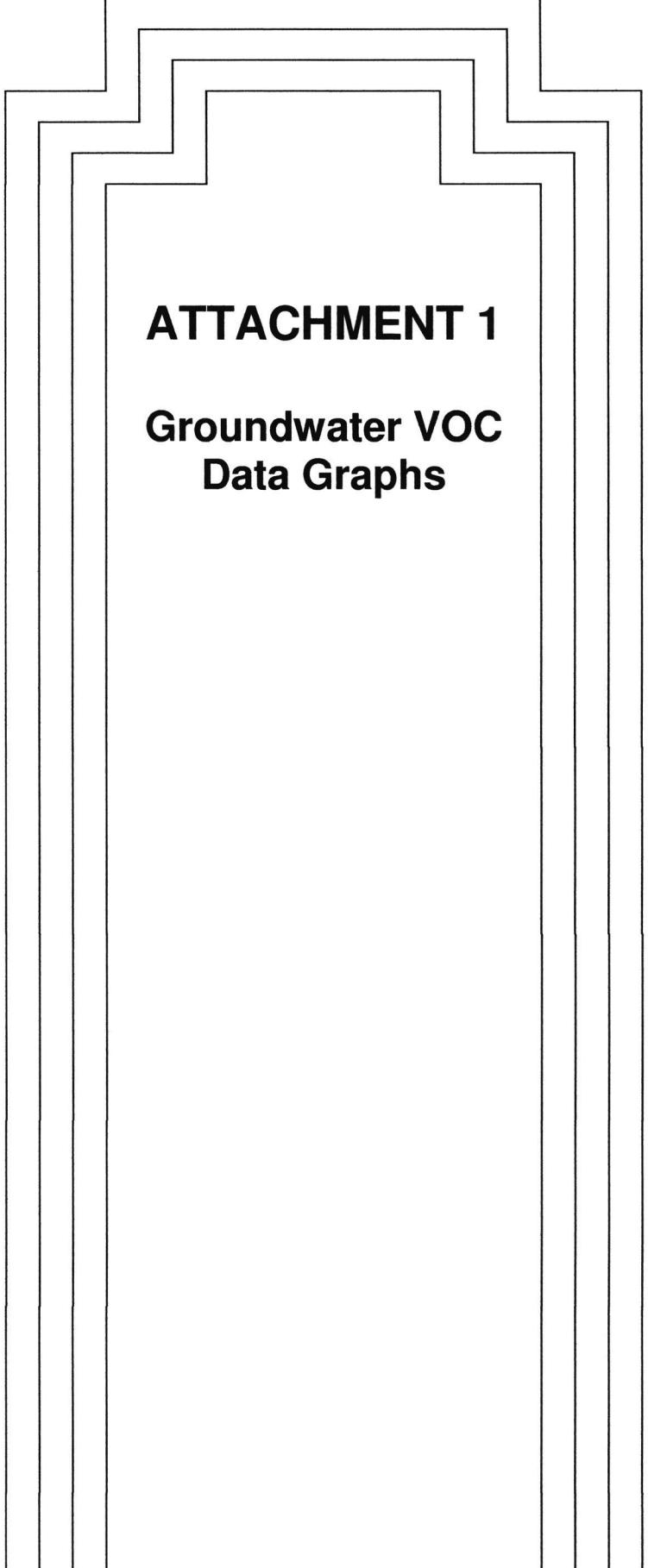


**UNIVAR USA INC.  
BERKELEY, MISSOURI**

**WATER TABLE MAP AND  
ANALYTICAL RESULTS (6-12-13)**

CHECKED T.SULLIVAN  
FILENAME:  
wtr 6-12-13 w/VOC

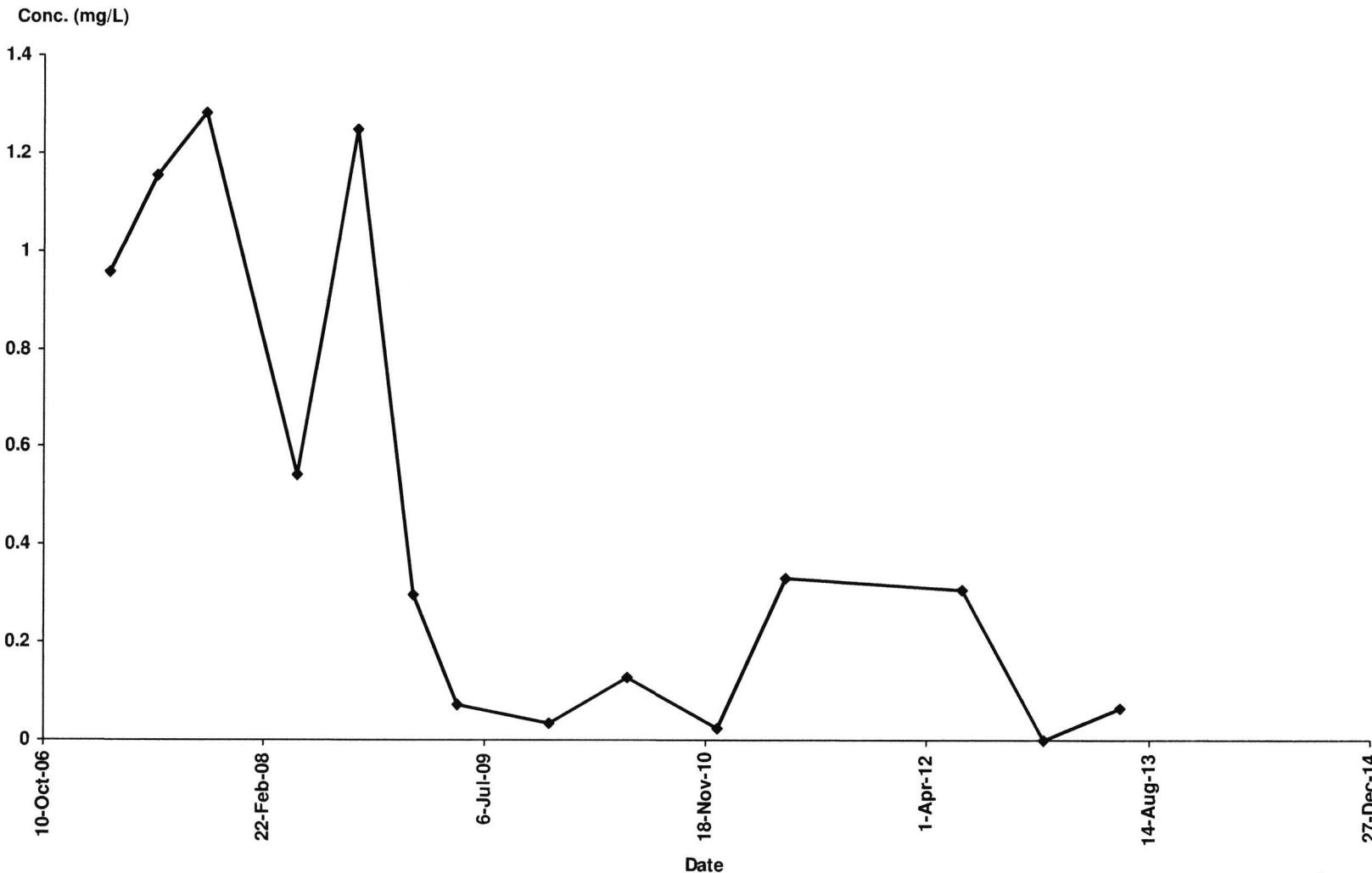
DATE 7-5-13  
FIGURE 1



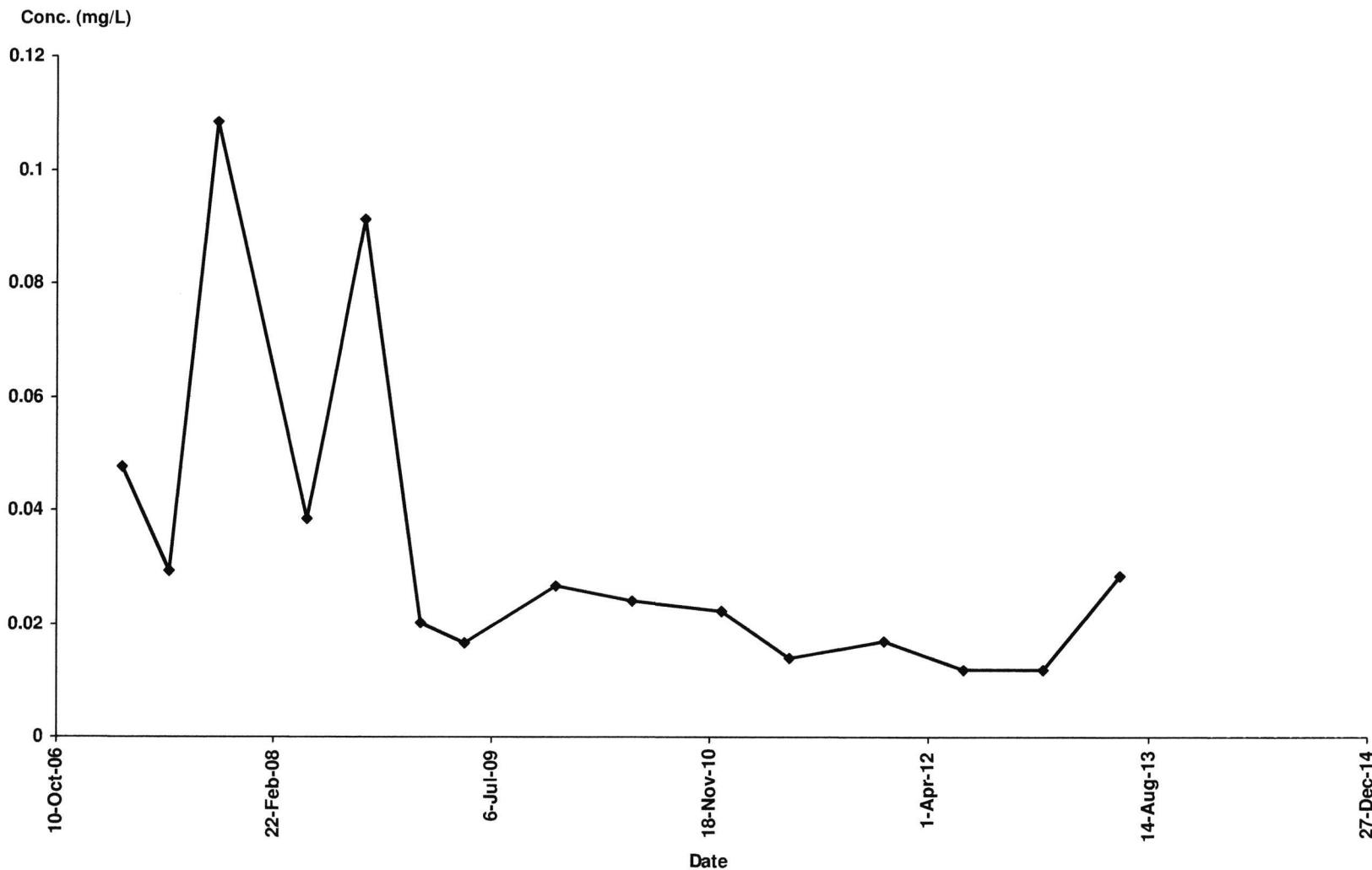
## **ATTACHMENT 1**

### **Groundwater VOC Data Graphs**

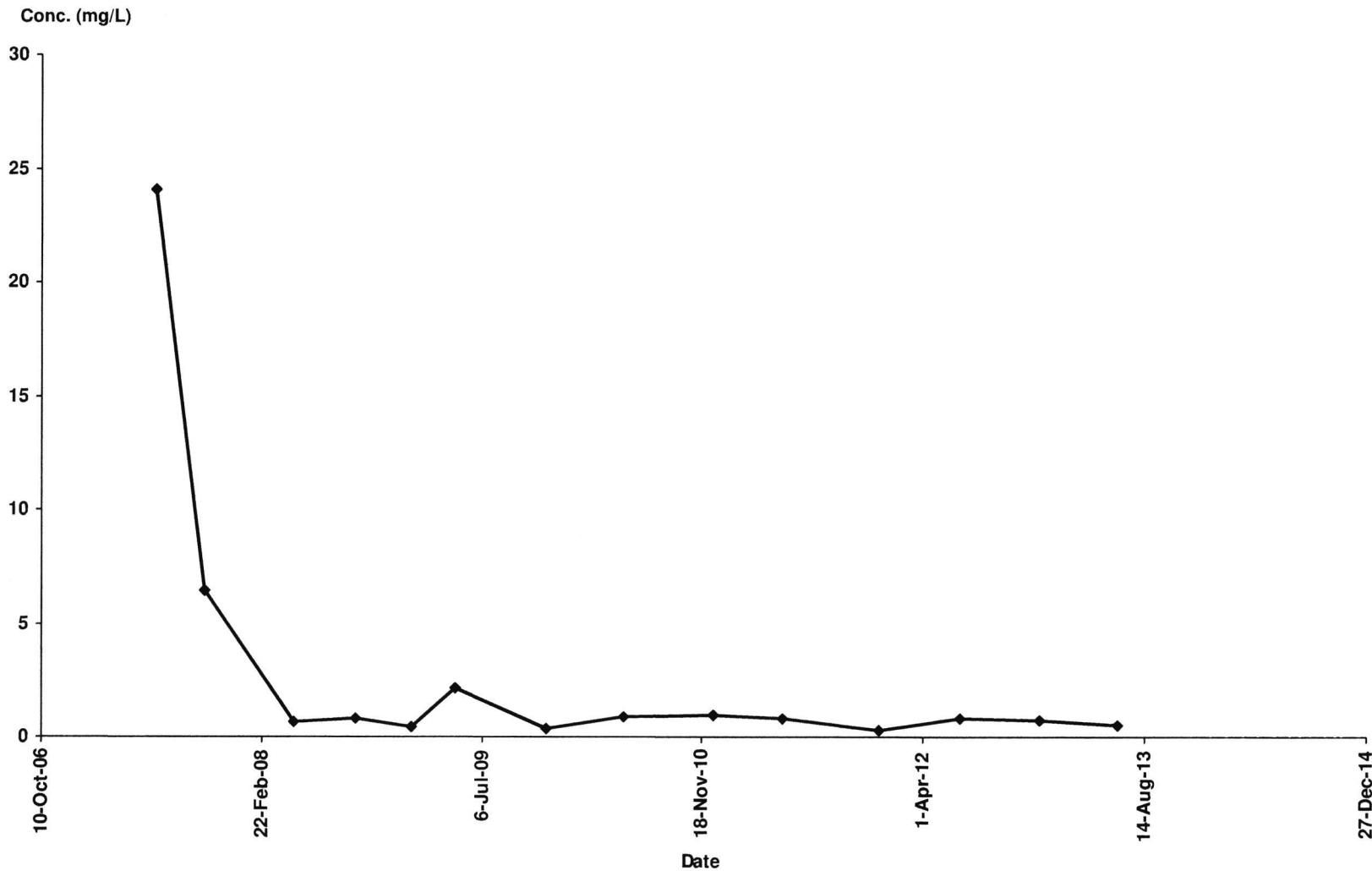
**MW-2**



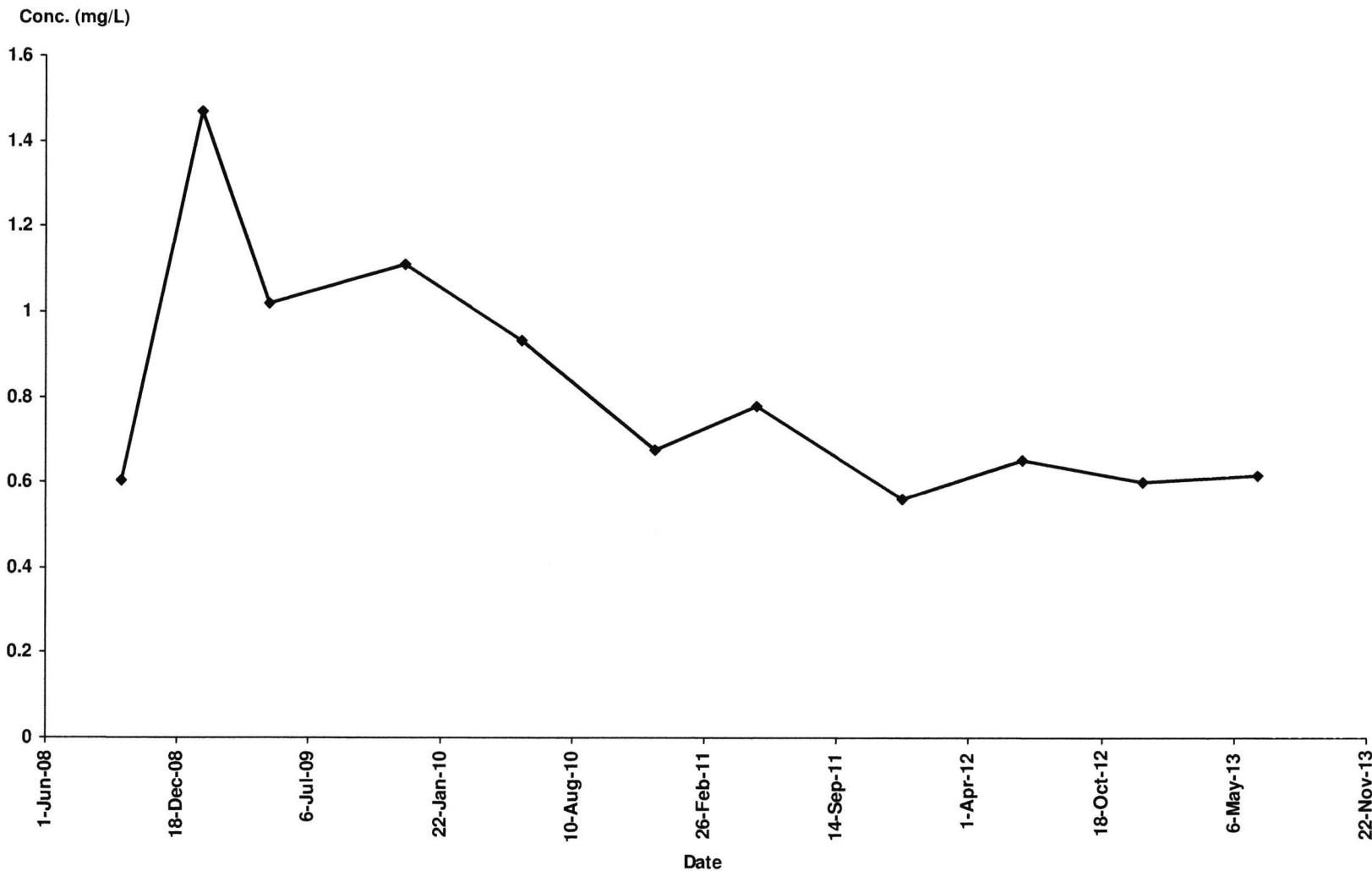
MW-4

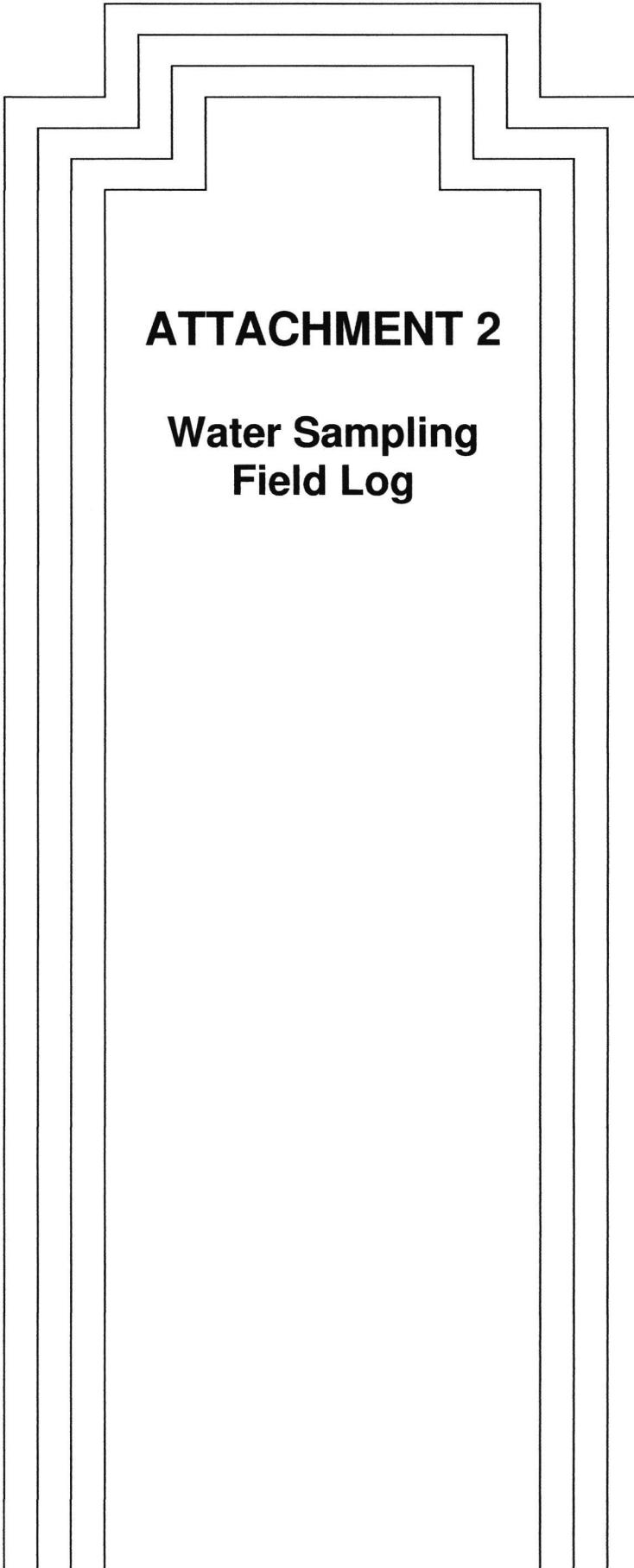


**MW-7**



**MW-9**





## **ATTACHMENT 2**

### **Water Sampling Field Log**

# Water Sampling Log

Page 1 of 1

<b>Site:</b>	<b>Univar Berkely, MO</b>			<b>Weather:</b>	Clear, 95 F				
<b>Proj No:</b>	<b>VW-068/093-84248</b>			<b>Personnel:</b>	<b>BEF/JSI</b>				
<b>Well No.</b>	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
<b>Casing</b>	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
<b>Date</b>	6/12/2013	6/12/2013	6/12/2013	6/12/2013	6/12/2013	6/12/2013	6/12/2013	6/12/2013	6/12/2013
<b>Total Depth (ft)</b>	13.33	13.56	13.48	13.19	14.56	18.65	13.54	13.92	14.81
<b>Wtr Level (ft)</b>	2.60	2.26	0.96	4.19	8.75	10.58	5.42	3.66	2.88
<b>Wtr Colum (ft)</b>	10.73	11.3	12.52	9.00	5.81	8.07	8.12	10.26	11.93
<b>Gal / foot</b>	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
<b>Gal in well</b>	1.72	1.81	2.00	1.44	0.93	1.29	1.30	1.64	1.91
<b>Gal Purged</b>	5.25	5.5	6.0	4.5	3.0	4.0	4.0	5.0	5.75
<b>Start Time</b>	1100	1335	1400	1512	1535	1130	1315	1146	1420
<b>Sampled Time</b>	1115	1348	1428	1530	1545	1220	1330	1200	1450
<b>Turbidity</b>	m	m	m	m	I	h	m	m	h
<b>Color</b>	lt. brown	lt. brown	yellow-brown	tan	lt. brown	med. Brown	tan	lt. brown	red-brown
<b>Odor</b>	none	none	none	none	none	none	none	none	none
<b>Temperature</b>	22.64	20.67	17.21	17.84	17.32	15.70	19.33	18.45	16.81
<b>pH</b>	7.13	7.63	6.69	7.11	6.89	6.75	7.14	6.70	10.48
<b>ORP</b>	25.9	118.3	58.4	42.9	56.9	-79.8	141.1	-27.2	-4.9
<b>Conductivity</b>	0.665	0.374	3.126	0.814	1.106	1.086	0.624	3.035	4.363
<b>Method (bail/pump)</b>	bail	bail	bail	bail	bail	bail	bail	bail	bail
<b>Analyses</b>	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260	VOCs 8260
<b>Container(s)</b>	3-40 ml	3-40 ml	3-40 ml	3-40 ml	3-40 ml	3-40 ml	3-40 ml	3-40 ml	3-40 ml
<b>Preservative</b>	HCL	HCL	HCL	HCL	HCL	HCL	HCL	HCL	HCL
<b>NAPL Depth</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>NAPL Thickness</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

BDS-1 is MW-9, EB-1 @ 1310 (MW-7)

## Field Parameter Instrument Calibration

Performed on: 6/12/2013

Performed by: BEF

Method of pH calibration by: Three point, 10.0, 7.0 and 4.0.